

PRESA POS. MINI MATE I contatti fe	N LOCK maschio	PRESA POS. 15 MINI MATE N LO contatti femmi	CK maschio
1 VI-BI 2 BL 3 BL-NE	2P Shoot	2 GI + 3 MA-NE +	24 V 24 V 12 V
4 GI-NE 5 CL 6 MA-BI	GOUT 1 GOUT 2	5 RO +	5 V 5 V
7 VE-CL 8 BI	GOUT 4 SYNC	7 GI-RO T 8 NE G	RG 1 ND ENSOR 1
9 NE PRESA POS.	GND 6vie	10 VE L 11 RO-VE S	MP 1 OL 2
	N LOCK maschio	12 BI-BL T 13 NE G	RG 2 ND ENSOR 2
2 VE	+24 V GND 24 V	15 VE-NE L	
3 RO 4 MA-NE 5 NE	+5 V +12 V GND	PRESA INSEGNA conn. AMP UML contatti femmi	
6		1 RO 2 GI-VE 1mm 3 NE	
PRESA ALIM	ENTATORE		
+12 V MA-1	NE \$2 + 3	preisolato forchetta	
+5 V RO	1,5mm x2 + NE x2 1,5mm x2 + RO x2 VE 1mm x3	preisolato forchetta preisolato forchetta preisolato forchetta preisolato forchetta preisolato forchetta	giallo 7mm giallo 7mm rosso 7mm rosso 7mm
AC NE	/ piattina 0,5mm	preisolato forchetta	rosso 7mm
PRESA GETTO	ONIERA	PRESA CONSOLLE	
	DY 24 vie fisso	conn. BURNDY 2 contatti femmi	
1 MA-NE	+12 V Counter 1	1 GI 2 GI	+24 V +24 V
2 GI-RO 3 NE	GND	3 MA-NE	+12 V
		4 RO	+5 V
4 RO-BI 5 MA-GI 6 NE 7 AR-VE	Service	5 RO 6 RO-BL	+5 V SOL 1
6 NE 7 AR-VE	GND Coin 1	7 GI-RO	TRG 1
8 RO	+5 V Lamp	8 NE	GND
9 NE	GND Lamp	9 AR	SENSOR 1
10 VE-GR	Speaker R+		LMP 1.
11 VI	x2 Speaker R-	11 RO-VE	SOL 2.
12 GI	Speaker R Ret		TRG 2
13 MA-VE	Speaker L+ A x2 Speaker L-	13 NE 14 VE-ROSA	SENSOR 2
14 MA-ROS	Speaker L Ret		LMP 2
16 GI-VE		16 RO-NE	1P Start
17		17 BI-GR	2P Start
18		18 NE	GND
7 1 1 1 1 1		19 GI-VE lmm	GROUND

PRESA 28 VIE DOPPIE JAMMA

	PRESA 28	AIE DO	PPIE JAMMA	
Lato	saldatur	e L	ato componenti	
	NE	A-1	NE 1,5 mm	GND -
GND		B2	NE 1,5 mm	GND
GND	RO-MA	C-3		+5 V
+5 V			RO 1,5 mm	+5 V
+5 V		E5		-5 V
-5 V +12 V		F-6	MA-NE	+12 V
+12 V		H 7		
		J 8	GI-RO	Counter 1
		K 9		
Speaker L-	MA-ROSA	L 10	MA-VE	Speaker L+
Speaker 2		M 11		
Video GREEN cavo	/ VE	N 12	RO \ cavo	Video RED
Video SYNC Hantarex	\ BI x2	P 13	BL > Hantarex	Video BLUE
Service	MA-GI	R 14		Video GND
261 4100		S 15		Test
			AR-VE	Coin 1
2P Start	BI-GR	The second secon	RO-NE	1P Start
21 0000		V 18		
		W 19		
		X 20		
		Y 21		
2P Shoot	BL	Z 22	VI-BI	1P Shoot
		a 23		
		b 24		
		c 25		
		d 26		GND
GND	NE	e 27		GND
GND	NE	f 28	GI-VE 1mm	GND
· · · · · · · · · · · · · · · · · · ·	PRESA 2	4 VIE DO	OPPIE p 2,54	
		AB		
Speaker R-	V		VE-GR	Speaker R+
Speaker W		2		
		2 3		
		4		

Speaker R-	VI 1 VE-GR 2 3	Speaker R+
GOUT 0 GOUT 2 GOUT 4	4 5 BL-NE 6 GI-NE CL 7 MA-BI VE-CL 8 9 10 11 12	GOUT 1 GOUT 3
	14 15 16 17 18 19 20 21 22 23 24	M itanena,

	n. BURNDY 24	i vie volante	A SERV.	MA-61
1 2 3	MA-NE GI-RO NE x2	+12 V Counter 1 GND	TEST	NE RO-BI
23456789	RO-BI MA-GI	Test Service		
6	NE	GND Coin 1		
8	AR-VE	+5 V Lamp		
	NE	GND Lamp	(R)	(L)
10	VE-GR	Speaker R+	1	1
11	AI	Speaker R-		
12	GI	Speaker R Ret.	DUU	0 4 0
13	MA-VE	Speaker L+	6-6Re	MA-VE VE -ROSA
14	MA-ROSA	Speaker L-	2.5	MA-V VE -ROSA
15	VE	Speaker L Ret.	7 min (n - 2 - 2 min)	I e
16 17	GI-VE 1mm	GROUND		4
18				

PETTINE GETTONIERA

+12 V MA-NE	da	Presa	gettoniera	a	Comandi
Counter 1 GI-RO NE x2	da da			a	n
Test RO-BI	da			a	
Service MA-GI	da	. "		a	
Speaker R+ VE-GR	da		"	a	
Speaker R- VI	da			a	
Speaker R Ret. GI	da			a	
Speaker L+ MA-VE	da		"	a	
Speaker L- MA-ROSA	da			a	
Speaker L Ret. VE	da		"	a	
GND NE	da		n	a	Micro gettoniera
Coin 1 AR-VE	da			a	
+5 V Lamp RO	da		n	a	
GND Lamp NE	da			a	
GROUND GI-VE 1mm	da			a	# W

I fili NE /AR-VE /RO /NE all'uscita Micro gettoniera vanno intestati con preisolati faston femmina 4,7mm rosso. Il filo GI-VE 1mm all'uscita Micro gettoniera va intestato con preisolato ad occhiello rosso ϕ 5.

to bush the same was

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PRESA CONSOLLE
                                 PRESA P1 ( pistola 1P1 )
conn. BURNDY 24 vie volante
                                  MINI MATE N LOCK 6 vie maschio
contatti maschi
                                  cont. femmina
                                  in alternativa BURNDY 6 vie fisso
              +24 V
   GI
                                  cont.femmina
              +24 V
2
    GI
              +12 V
                                             +24 V
3
                                  1 GI
   MA-NE
              +5 V
4
  RO
                                  2 RO
                                              +5 V
5
              +5 V
                                  3 AR
   RO
                                              SENSOR 1
6 RO-BL
              SOL 1
                                  4 RO-BL
                                              SOL 1
7
              TRG 1
                                  5 GI-RO
  GI-RO
                                             TRG 1
8
   NE
              GND
                                 6 NE
                                             GND
              SENSOR 1
9
   AR
10 VE
              LMP 1
SOL 2
11
  RO-VE
                                 PRESA P2 ( pistola 2P1 )
              TRG 2
                                 MINI MATE N LOCK 6 vie maschio
12 BI-VI
13 NE
              GND
                                 cont. femmina 15
            SENSOR 2
                                 in alternativa BURNDY 6 vie fisso
14 VE-ROSA
15 VE-NE
16 RO-NE
              LMP 2
                                  cont. femmina
              1P Start
                                  1 GI
17 BI-GR
              2P Start
                                             +24 V
                                  2 RO
18 NE
              GND
                                             +5 V
                                  3 VE-ROSA
19 GI-VE 1mm GROUND
                                             SENSOR 2
                                  4 RO-VE
                                             SOL 2
                                  5 BI-VI
                                             TRG 2
                                  6 NE
                                              GND
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PETTINE CONSOLLE

+24 V	GI	da	Presa	consolle	a	Presa	P1
+5 V	RO	da		"	a	. 11	
SENSOR 1	AR	da			a		"
SOL 1	RO-BL	da			a		"
TRG 1	GI-RO	da		"	a		
GND	NE	da			a		"
+24 V	GI	da		" "	a	Presa	P2
+5 V	RO	da	"		a		
SENSOR 2	VE-ROSA	da			a		"
SOL 2	RO-VE	da	n n	п	a		"
TRG 2	BI-VI	da	- ·		a		11
GND	NE	da	"	"	a		11
+12 V	MA-NE x2	da	. "		a	Start	
LMP 1	VE	da			a		
LMP 2	VE-NE	da			a		
1P Start	RO-NE	da	SE L		a		
2P Start	BI-GR	da			a		
GND	NE x2	da	"		a		
GROUND	GI-VE 1mm	da	"		a	Massa	

Il filo GI-VE va intestato con preisolato ad occhiello rosso ϕ 5. I fili all'uscita Start vanno intestati ognuno con preisolati faston femmina 4,7mm rosso.

	-	ALL YEAR OF LOT
- 1	act	mode
	LCSL	IIII

The test mode allows testing of switches, changing of game fees, setting of games and other adjustments.

- Open the coin door and turn the test switch "ON". The game machine enters the test mode.
- (2) The mode changes over in the order given below each time the service switch is pressed.

① SWITCH TEST _____ Tests various switches. (See 5-4-1)

1

@ GOUT TEST ______ Tests the control systems. (See 5-4-2)

T

3 GAME MENU _____ Sets games. (See 5-4-3)

U

COIN OPTIONS _____ Sets game fees. (See 5-4-4)

1

© COLOR TEST _____ Tests the monitor.

T

6 CONVERGENCE TEST _____ Tests the monitor.

Û

Ø SOUND TEST _____ Tests the sound. (See 5-4-5)

D

Returns to the "SWITCH TEST".

(3) To return to the game screen, turn the test switch "OFF". Normally, place the test switch in the "OFF" position.

5-4-1 Switch test

Select the "SWITCH TEST" shown in 1. The following screen is displayed:

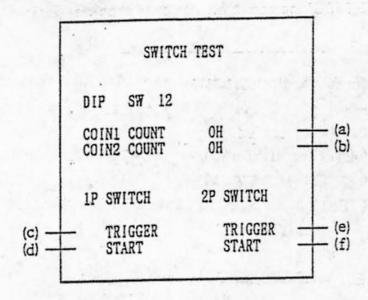


Fig. 7 Switch Test Screen

- (a) Turn the coin 1 switch "ON". The number increase.
- (b) Not used.
- (c) Pull the trigger of the player-1 gun. The characters are displayed in red.
- (d) Press the start button on the player-1 side. The characters are displayed in red.
- (e) Pull the trigger of the player-2 gun. The characters are displayed in red.
- (f) Press the start button on the player-2 side. The characters are displayed in red.

5-4-2 Control system test

Select the "GOUT TEST" shown in 2. The following screen is displayed:

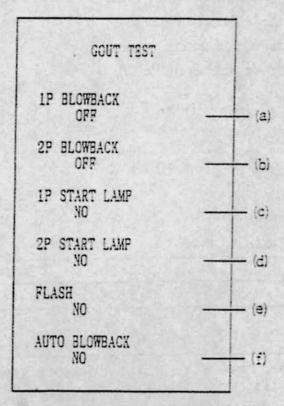


Fig. 8 GOUT TEST Screen

The "GOUT TEST" tests the blowback operations of the gun and lamps. The item moves down one by one each time the start button on the player-1 side is pressed or the trigger of the gun is pulled. Select an item to be tested and press the start button on the player-2 side or pull the trigger of the gun.

The operation works as follows:

- (a) The blowback operation of the player-I gun works once.
- (b) The blowback operation of the player-2 gun works once.
- (c) "YES" is displayed and the start button on the player-1 side continues to blink.
- (d) "YES" is displayed and the start button on the player-2 side continues to blink.
- (e) "YES" is displayed and the signboard lamp continues to blink.
- (f) "YES" is displayed, and the blowback operations of both player-1 and player-2 guns continue to work.

5-4-3 Setting of game menu

Select the "GAME MENU" shown in @ to set a game menu.

The item moves down one by one each time the start button on the player-1 side is pressed or the trigger of the gun is pulled. Select an item to be tested and press the start button on the player-2 side or pull the trigger of the gun. (See table 1)

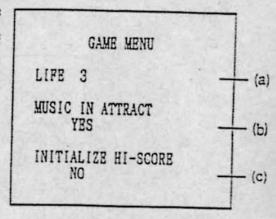


Fig. 9 Game Menu Screen

Table 1 Game Menu Setting Table

(4: Original setting:)

Item	Description
(a) No. of lives at start of game	1 to 5 (Original setting: 3)
(b) Attract sound	YES <
(c) High-score initialization in each stage	YES (This operation has a little wait time when leaving NO < the test mode)

5-4-4 Setting of game fees

Select the "COIN OPTIONS" shown in 4 to set game fees.

The item moves down one by one each time the start button on the player-1 side is pressed or the trigger of the gun is pulled. Select an item to be tested and press the start button on the player-2 side or pull the trigger of the gun (See Table 2).

Pressing the service switch switches the current screen to the next test screen. To return to the game screen, turn the test switch "OFF".

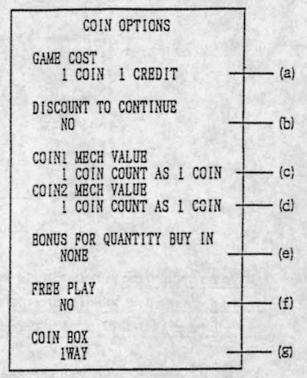


Fig. 10 Coin Options Screen

Table 2 Coin Options Setting Table

(: Original setting:)

Item	Description						
(a) Setting of game fee	No. of coins required for one game (one credit)	1COIN to 9 COINS					
(b) Continue game fee	Setting of half of game fee for continuation	NO (Same game fee) YES (Half of game fee)					
(c) Coin counter 1	A count per coin	to 9 COINS					
(d) Coin counter 2	A count per coin	to 9 COINS					
(e) Bonus coin	Bonus credit is added when the specified number of coins is entered.	NONE 2 COIN GIVES I,COIN to to 9 COINS 3 COINS					
(f) Free play	Free play allowing a game to start when the seat button is pressed.	NO 4					
(g) Coin box		1 WAY 2 WAY					

5-4-5 Sound test

Test the various sounds.

Select the "SOUND TEST" shown in 7 to display the following screen and test sounds.

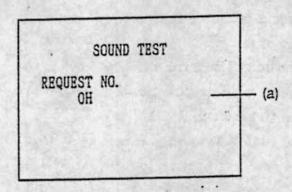


Fig. 11 Sound Test Screen

(a) To go back to the previous sound number, press the player-1 start button. To go to the next sound number, press the player-2 start button. Pull the trigger of player-1 or player-2 gun. The music will start.

5-4-6 Gun initialization

Make the following operations for adjustment whenever replacing the game PC board, ROM and gun Assy; otherwise, the game machine will not work properly. Be careful in adjustment work.

This paragraph describes the initialization of player-1 gun.

 Turn the test switch "ON" with the service switch pressed. The "IP GUN INITIALIZE" initial screen will be displayed.

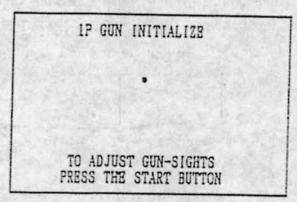


Fig. 12 Gun Initialization Initial Screen

- (2) Press the start button. The adjustment screen shown in Fig. 13 will be displayed. Note: Do not press the service switch or do not turn the test switch "OFF"
 - Note: Do not press the service switch or do not turn the test switch "OFF" without performing adjustment on this screen; otherwise, the gun will be out of position and the game machine will not work properly.

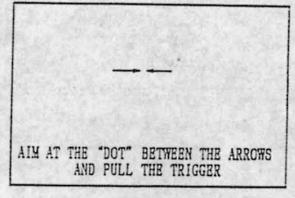
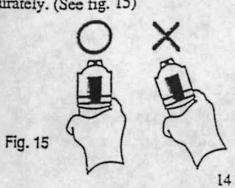
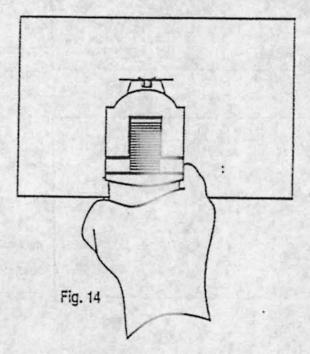


Fig. 13 Gun Initialization Adjustment Screen

At this time, keep the gun level. If inclined, the gun cannot be initialized accurately. (See fig. 15)





(4) When you are aiming the gun almost one second in the state of (3), the screen cursor comes between the arrows (———————) as shown in Fig. 16.

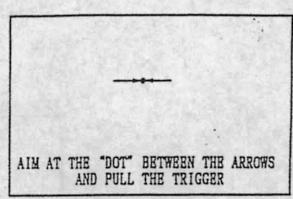


Fig. 16

- (5) When the gun sight aims directly at the cursor, pull the trigger. The check screen shown in Fig. 17 is displayed.
 - The check screen allows you to check the gun for accurate adjustment while operating.

Face the gun in various directions on the screen to check that the cursor is in the gun sight. (See Fig. 18)

- (6) Check the result of adjustment. If the cursor is out of the gun sight, press the start button once again. The cur rent screen will return to the adjustment screen (Fig. 13) for readjustment.
- (7) If the cursor comes in the gun sight to aim the gun at a target, the adjustment will be completed. Press the service switch. The gun initialization screen for player-2 is displayed. Initialize the player-2 gun in the same manner.

TO RE-ADJUSTMENT
PRESS THE START BUTTON

Fig. 17 Check screen
Confirm if the cursor is in the gun sight.

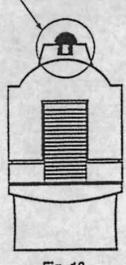


Fig. 18

Note: If the service switch is pressed or the test switch is turned "OFF" without making any adjustment on the adjustment screen (Fig. 13), the cursor will be out of the gun sight. Be sure to leave the test mode on the check screen (Fig. 17) after adjusting and checking the gun. To return to the game screen, turn the test switch "OFF" on the check screen (Fig. 17). After adjustment, play a game to check for normal adjustment.